

THINK TECH FORWARD

## Specification

DESCRIPTION	UNIT	UN90SJII	UN120SJII	UN160SJII				
International size		191/900	295/1200	295/1600				
<b>INJECTION UNIT</b>								
Theoretical shot volume	cm <sup>3</sup>	51.3	71.6	87.6	116.6	87.6	116.6	158.7
Shot weight (PC)	g	51.3	71.6	87.6	116.6	87.6	116.6	158.7
	oz	1.8	2.5	3.1	4.1	3.1	4.1	5.6
Screw diameter	mm	22	26	26	30	26	30	35
Injection pressure	MPa	374.2	267.9	336.5	252.8	336.5	252.8	185.7
Screw L:D ratio		21.4:1	21.1:1	21.2:1	24:1	21.2:1	24:1	20.6:1
Injection rate	g/s	49.8	69.5	86.5	115.2	95	126.1	172.1
Max. injection speed	mm/s	131		163				179
Screw stroke	mm	135		165				165
Screw speed	r/min	0-228		0-300				0-330
<b>CLAMPING UNIT</b>								
Clamping force	kN	900	1200					1600
Opening stroke	mm	320	360					410
Space between tie bars	mm	360×360	410×370					455×435
Max. daylight	mm	670	760					870
Mold thickness (min.-max.)	mm	130-350	145-450					160-460
Ejector stroke	mm	100	120					140
Number of ejector pin hole		5	5					5
Ejector force	kN	28	42					42
<b>POWER UNIT</b>								
Max. system pressure	MPa	17.5	17.5					17.5
Pump motor	kW	11 (Servo)	19.6 (Servo)					22 (Servo)
Heating capacity	kW	4.8/5.85	5.85/8.16					5.85/8.25
Number of temp. control zones		5	5					5
<b>GENERAL UNIT</b>								
Dry cycle time	s	1.8	1.8					2.4
Oil tank capacity	L	160	200					230
Machine dimensions (LxWxH)	m	4.28×1.18×1.56	4.53×1.24×1.62					5.21×1.32×1.73
Machine weight	kg	2800	3500					4620

Note: 1. Theoretical shot volume= barrel sectional area \* injection stroke. 2. Shot weight=shot volume \* 1.0 (for PC).

### Disclaimer:

1. We reserve the right to change specifications without prior notice.
2. The pictures are only for reference, please refer to the real object.
3. Data above come from Yizumi lab, available for reference.

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### [DISCLAIMER]

- [1] YIZUMI reserves the right to modify the product description in the catalogue. Specification might be changed without prior notice.
- [2] The picture in the catalogue is for reference only. The real object should be considered as final.
- [3] The data in the catalogue is obtained from internal testing in YIZUMI laboratory.  
Please refer to the actual machine for the final data. YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

Designed by YIZUMI, May 2023

# SJII

## 90T-160T

SJ II SERIES INJECTION MOLDING MACHINE  
FOR HIGH-END THIN-WALL PRODUCT



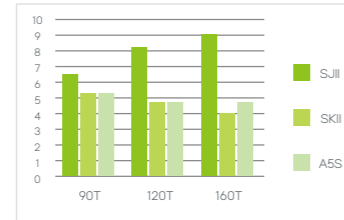
## SJII series injection molding machine for high-end thin-wall product

SJ series injection molding machine has been launched into the market for many years. After years of technical advancement and market validation, model upgrading has been achieved with the launch of the SJII series injection molding machine, combining the requirement of high-end molding and expansion of application field.

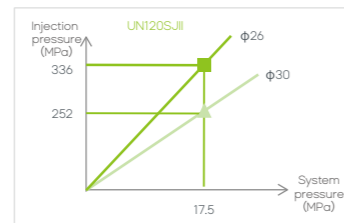


## Customer value

**40%** **High injection speed**  
Filling with high injection speed produces low internal stress of product, less deformation. Injection speed is 40% higher than that of conventional injection molding machine.



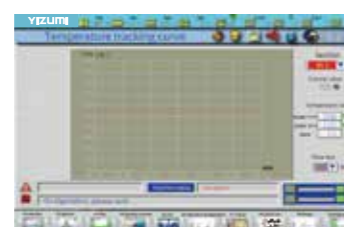
**>300** **High injection pressure**  
Injection pressure more than 300MPa Ensuring the molding of product with higher flow length ratio.



**±0.5** **Precision**  
Based on the further optimization of injection unit, injection accuracy is improved. Accuracy deviation of mold opening and closing is under ±0.5mm.



**±0.5** **Stability**  
Accurate temperature control ensures the heating uniformity of melt plastic, improving plasticizing stability. Temperature control deviation can be limited to under ±0.5°C in static test.



## Industry application

### Standard application field

More cost-effective and high-quality machine is in great requirement to satisfy customer's transformation and upgrading, and the production of mobile phone case (PC, TPU), smart phone accessories (frame, shell, button), electronic connector, electronic product, syringe, medical instrument, light guide plate and LED len.



### Extended application

Powder injection molding



## Application case



### Samsung mobile phone plastic frame

Material: PC  
Cavity: 2  
Thickness: 0.7mm/0.3mm (min.)  
Dimension: 5"  
Cycle time: 10s  
Molding temperature: 310°C  
Injection speed: 110mm/s  
Injection pressure: 150MPa



### Precision gear

Material: POM  
Cavity: 8  
Thickness: 1.0mm  
Dimension: 15mm in diameter  
Cycle time: 10-12s  
Molding temperature: 170-190°C  
Injection speed: 100mm/s  
Injection pressure: 200MPa



### Medical instrument handle

Material: PC  
Cavity: 2  
Thickness: 1.2mm  
Dimension: 180×70 mm  
Cycle time: 16s  
Molding temperature: 295°C  
Injection speed: 130mm/s  
Injection pressure: 280MPa

## Technical highlights

### Further optimized injection unit, improving injection stability and accuracy.

Screw upgrading and optimization can not only ensure quick plasticizing, but also improve plasticizing mixing and color mixing effect, minimizing color difference and solving screw cleaning difficulty.

To meet the market demand, 160T model machine is equipped with D26 screw, more flexible.

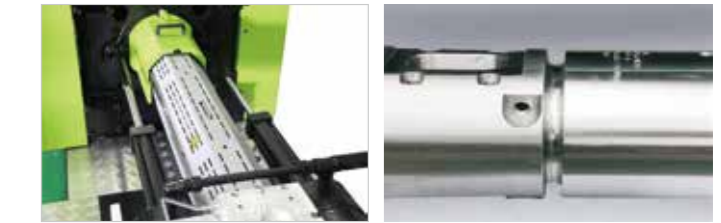
Injection speed is further improved, applicable for precision molding.



### User friendly design, convenient for machine operation and maintenance, improving customer's overall efficiency.

Double carriage cylinder is helpful to avoid a overturning moment to guide rod during injection, improving injection accuracy and reducing the tear and wear of nozzle and mold.

Energy-saving design of plasticizing barrel can save 5%-8% energy of barrel heating part in static test.



### High-rigidity clamping unit

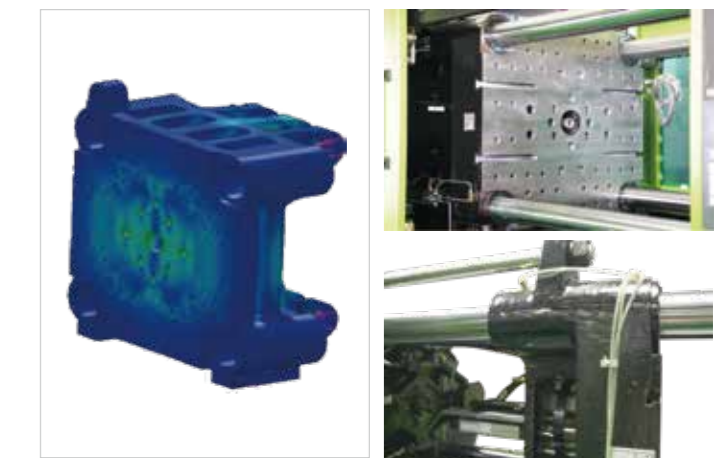
Minimizing platen deformation and effectively reducing clamping force in the production of same product.

### T-slot and mold mounting hole

Horizontal direction of platen is arranged with the combination of T-slot and mold mounting hole, while vertical only mold mounting hole, not only convenient for the mold assembly and disassembly, but also enhancing the overall rigidity of platen.

### Extended guiding section of tie bar guiding hole

Improving movable platen stability and reducing the wear and tear of mold guide rod during mold opening and closing.



### Enhanced power system, quick response

Adopting the third energy-saving servo system, lower energy consumption.

Sufficient power configuration, high response speed.

Valve plate placed on the fixed platen, reducing response time.

